

## A B S T R A C T

A CELL AND TISSUE CULTURE DEVICE WITH TEMPERATURE  
REGULATION

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A device for culturing cells and tissue comprises at least one culture well (18-i), first and second reservoirs (2 and 25) each housing at least one flexible bag (6, 7; 27, 29), at least one of which is suitable for receiving a culture fluid, link means (20, 21) coupled to the wells and to the bags to allow culture fluid to flow from one reservoir to the other via the well, pressurization means (60-92) subjecting the first and second reservoirs (2 and 25) respectively to first and/or second sequences of external pressures defined by a control module (50) for the purpose of governing the flow of culture fluid in the well, and temperature regulation means (49, 51-58) controlled by the control module and arranged to maintain a first selected temperature inside the well and to subject the culture fluid leaving the first and second reservoirs in order to feed the well to a second selected temperature.

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